

INDEX

- Adenostoma fasciculatum*, and *A. sparsifolium*, 213-235
- Age structure, rotifer populations, 98
- Alaska, deer range, 259-284
- Antibiosis, in planktonic rotifers, 83
- Bioclimatology, subarctic and arctic, 37-59
- Bitterbrush, in California, 307-334
- Buffington, Lee C., article, 139-164
- California,
chaparral, 213-235
floristics, 2
relict species, 9-15
- Cedar-hemlock and seral shrubs, 165-185
- Chamise, 215
- Chaparral, shrub ecology, 213-235
- Chew, Alice E., article, 355-375
- Chew, Robert W., article, 355-375
- Climate,
high Sierra Nevada, 189
N. W. T., 37
San Simon, Ariz., 356
- Communities,
esker, 45-47
muskeg, 43-44
seral shrub, 165-185
spruce, 47-53
- Community metabolism, lotic environments, 237-258
- seasonal variations, 250
- Cooper, W. F., article, 377-394
- Daphnia*, Azisecos Lake, Maine, 395
- dynamics of the association, 395
- population size, seasonal variation, 405
- vertical distribution, 399
- Deer range, Alaska, 259-284
- Deer, response to range, 276
- Desert shrub community, primary productivity, 355-375
- Distribution, vertical, of *Daphnia*, 399
- Drew, James V., article, 285-306
- Dynamics, of the association of six limnetic species of *Daphnia* in Azisecos Lake, Maine, 395
- of natural population of a freshwater amphipod, *Hyaella azteca*, 377
- Ecology of deer range, 259
- Edaphic variables, north central Florida, 345
- Edmondson, W. T., article, 61-111
- Eggs, duration of development, 100
- Endemism, and altitude, 23
- and speciation, California, 1-35
- Florida, mixed hardwood forest, 335-354
- Flourensia cernua*, 139
- Food, planktonic rotifers, 61-69
- Frost action, 53
- Geology, northcentral Florida, 336-337
- Golley, Frank B., article, 113-137
- Grassland, semi-desert, 139-164
- changes with grazing, 139-164
- Grazing, semi-desert, 139-164
- Hanes, Ted L., article, 213-235
- Herbel, Carlton H., article, 139-164
- Hyaella azteca*, dynamics and production of, 377
- Idaho, cedar-hemlock zone, 165-185
- Kellicottia longispina*, reproductive rate, 87
- Keratella cochlearis*, variations related to food and temperature, 73
- Klein, David R., article, 259-284
- Klikoff, Lionel G., article, 187-211
- Larrea tridentata*, 355-375
- density and cover, 358
- growing period, 362
- physiological tolerances, 370
- primary productivity, 355-375
- root system, 365, 370
- seed crops, 358, 365
- size versus age, 360
- toleration of arid conditions, 357, 358
- Larsen, James A., article, 37-59
- Lotic environments,
community metabolism, 237-258
periphyton production, 237-258
- Major, Jack, article, 1-35
- McIntire, C. David, article, 237-258
- Microenvironment and pattern, 187-211
- Mixed hardwood forest, Florida, 335-354
- deciduous-evergreen nature, 343
- importance values, 340
- phytosociological diversity, 341
- Monk, Carl D., article, 335-354
- Mueggler, Walter F., article, 165-185
- Nord, Eamor C., article, 307-334
- North West Territory, climate, 37
- environment, 53-56
- vegetation, 37-59
- Parasitism, deer, 278
- in planktonic rotifers, 85
- Pattern and microenvironment, 187-211
- Periphyton production, in lotic environments, 237
- seasonal variations, 250
- Permafrost, 53
- Phinney, Harry K., article, 237-258
- Planktonic rotifers, reproductive rate, 61
- Polyarthra vulgaris*, feeding mechanism of, 89
- Polyploidy and endemism, 16-23
- Population dynamics, deer, 279
- of *Hyaella azteca*, 388
- Predation, of fish on *Hyaella azteca*, 387
- in planktonic rotifers, 85
- Productivity, of *Hyaella azteca*, 390
- of *Larrea tridentata*, 355-375
- Prosopis juliflora*, 139
- Purshia tridentata* and *P. glandulosa*, 306-334
- life history, 315-325
- successional relationships, 325
- Red shank, 215
- Relict species, California, 9-15
- Reproductive rate, of planktonic rotifers, 61-111
- and temperature, 69-91
- Roots, *Larrea tridentata*, 365, 370
- Rotifer populations, age structure, 98
- reproductive rate, 61-111
- Seed production, *Larrea tridentata*, 365
- Semidesert grassland, 139-164
- Shanks, Royal E., article, 285-306
- Soils and vegetation in the forest-tundra ecotone, 285-306
- Stebbins, G. Ledyard, article, 1-35
- Tappa, Donald W., article, 395-423
- Temperature, planktonic rotifers, 61, 69
- Timberline vegetation pattern, 187-211
- Tundra vegetation and soils, 301
- Vegetation,
changes on semi-desert grassland, 139-164
deer range, Alaska, 259-284
Ennadai Lake Area, N. W. T., 37-59
north central Florida, 335
pattern near timberline, 187
Upper Firth River Valley, 285-306